RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/584.482
Source:	IFWP
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IFWP

RAW SEQUENCE LISTING DATE: 07/07/2006
PATENT APPLICATION: US/10/584,482 TIME: 14:52:51

Input Set : A:\PTO.KD.txt Output Set: N:\CRF4\07072006\J584482.raw 3 <110> APPLICANT: HAGIWARA, Masatoshi 5 <120> TITLE OF INVENTION: Method for controlling SR protein phosphorylation, and antiviral agents 6 whose active ingredients comprise agents that control SR protein activity 8 <130> FILE REFERENCE: 6235-76051-01 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/584,482 C--> 11 <141> CURRENT FILING DATE: 2006-06-23 13 <150> PRIOR APPLICATION NUMBER: JP 2003-435085 14 <151> PRIOR FILING DATE: 2003-12-26 16 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/019393 17 <151> PRIOR FILING DATE: 2004-12-24 19 <160> NUMBER OF SEO ID NOS: 5 21 <170> SOFTWARE: PatentIn version 3.1 23 <210> SEQ ID NO: 1 24 <211> LENGTH: 1965 25 <212> TYPE: DNA 26 <213> ORGANISM: Homo sapiens 28 <220> FEATURE: 29 <221> NAME/KEY: CDS 30 <222> LOCATION: (1)..(1965) 31 <223> OTHER INFORMATION: W--> 33 <400> 1 34 atg gag cgg aaa gtg ctt gcg ctc cag gcc cga aag aaa agg acc aag 48 35 Met Glu Arg Lys Val Leu Ala Leu Gln Ala Arg Lys Lys Arg Thr Lys 10 38 gcc aag aag gac aaa gcc caa agg aaa tet gaa act cag cac cga ggc 96 39 Ala Lys Lys Asp Lys Ala Gln Arg Lys Ser Glu Thr Gln His Arg Gly 25 42 tct gct ccc cac tct gag agt gat cta cca gag cag gaa gag gag att 144 43 Ser Ala Pro His Ser Glu Ser Asp Leu Pro Glu Glu Glu Glu Ile 35 40 46 ctg gga tct gat gat gat gag caa gaa gat cct aat gat tat tgt aaa 192 47 Leu Gly Ser Asp Asp Asp Glu Gln Glu Asp Pro Asn Asp Tyr Cys Lys

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51 Gly Gly Tyr His Leu Val Lys Ile Gly Asp Leu Phe Asn Gly Arg Tyr

54 cat gtg atc cga aag tta ggc tgg gga cac ttt tca aca gta tgg tta

55 His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr Val Trp Leu

58 tca tgg gat att cag ggg aag aaa ttt gtg gca atg aaa gta gtt aaa

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105

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52 65

240

288

336

80

62 agt gct gaa cat tac act gaa aca gca cta gat gaa atc cgg ttg ctg

384

RAW SEQUENCE LISTING DATE: 07/07/2006
PATENT APPLICATION: US/10/584,482 TIME: 14:52:51

Input Set : A:\PTO.KD.txt

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67 Lys																102
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	-~-		~+ ~													520
74 atc																528
75 Ile	Cys	Met	Val	Phe	Glu	Val	Leu	Gly	His	His	Leu	Leu	Lys	Trp	Ile	
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98 cct 99 Pro 100 102 aag 103 Lys 104 106 att 107 Ile 108 110 aag 111 Lys 112 305 114 cca 115 Pro 116	Lys y aag s Lys gag e Glu 290 y caas Gln cct	Pro gragge gragg	Ala 260 aag Lys atg Met gaa Glu aaaa	gac Asp cgc Arg gag Glu tca Ser atg Met 325	cag Gln aaa Lys gag Glu 310 acc	Met gca Ala gag Glu 295 agt Ser caa	gaa Glu 280 tcg Ser cct Pro	aag Lys 265 tta Leu ggc Gly gtt Val aaa Lys	aat Asn cta Leu cct Pro gaa Glu ctt Leu 330	Lys gag Glu ggg Gly aga Arg 315 gaa Glu	Lys aag Lys caa Gln 300 ccc Pro	aag Lys Cga Arg 285 aaa Lys ttg Leu	aaa Lys 270 atg Met aga Arg aaa Lys	255 ttg Leu g cag Gln cca pro gag Glu acc Thr	aag Lys gaa Glu aac Asn 320 att	912 960 1008
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98 CCt 99 Pro 100 102 aag 103 Lys 104 106 att 107 Ile 108 110 aag 111 Lys 112 305 114 CCa 115 Pro 116 118 ggg 119 Gly 120	Lys g aag g Lys g ag g Glu 290 g caa g Gln cct cct cag g Gln att	Pro cag Gln 275 gaa Glu aat Asn gat aat	Ala 260 aag Lys atg Met Glu aaa Lys caa Gln 340 tgc	gac Asp cgc Arg gag Glu tca Ser atg Met 325 acg Thr	cag Gln aaa Lys gag Glu 310 acc Thr ctt Leu gga	Met gca gag Glu 295 agt Ser caa Gln atg	gaa Glu 280 tcg Ser cct Pro gaa Glu	aag Lys 265 tta Leu ggc Gly gtt Val aaa Lys cgt Arg 345 gaa	aat Asn cta Leu cct Pro gaa Glu ctt Leu 330 gat Asp	Lys gag Glu ggg Gly aga Arg 315 gaa Glu aca Thr	Lys aag Lys caa Gln 300 ccc Pro gag Glu aat	aag Lys 285 aaa Lys ttg Leu tca Ser Gly	aaa Lys 270 atg Met aga Arg aaa Lys Glys 350 act	ttg Leu cag Gln cca Gln cca Gln cca Gln cca Cac Cac Cac Cac Cac Cac Cac Cac Cac	aag Lys gaa Glu aac Asn 320 att Ile	960 1008
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PATENT APPLICATION: US/10/584,482 TIME: 14:52:51

Input Set : A:\PTO.KD.txt

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179	Pro	Arg	Lys	Leu	Ile	Val	Ala	Gly	Lys	Tyr	Ser	Lys	Glu	Phe	Phe	Thr	
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182	aaa	aaa	ggt	gac	ctg	aaa	cat	atc	acg	aag	ctg	aaa	cct	tgg	ggc	ctt	1824
183	Lys	Lys	Gly	Asp	Leu	Lys	His	Ile	Thr	Lys	Leu	Lys	Pro	Trp	Gly	Leu	
184			595					600					605				
186	ttt	gag	gtt	cta	gtg	gag	aag	tat	gag	tgg	tcg	cag	gaa	gag	gca	gct	1872
187	Phe	Glu	Val	Leu	Val	Glu	Lys	Tyr	Glu	Trp	Ser	Gln	Glu	Glu	Ala	Ala	
188		610					615					620					•
						tta											1920
191	Gly	Phe	Thr	Asp	Phe	Leu	Leu	Pro	Met	Leu	Glu	Leu	Ile	Pro	Glu	Lys	
192	625					630					635					640	

RAW SEQUENCE LISTING

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DATE: 07/07/2006

TIME: 14:52:51

Input Set : A:\PTO.KD.txt

											cct						1965
	Arg	Ala	Thr	Ala		Glu	Cys	Leu	Arg		Pro	Trp	Leu	Asn			
196	-21/	n	בר דו	D NO	645					650					655		
	<210> SEQ ID NO: 2 <211> LENGTH: 655																
	<212> TYPE: PRT																
					Home	Homo sapiens											
				NCE:			,										
			-			Leu	Ala	Leu	Gln	Ala	Arg	Lys	Lys	Arq	Thr	Lys	
206			•	-	5					10	_	-	•		15	-	
208	Ala	Lys	Lys	Asp	Lys	Ala	Gln	Arg	Lys	Ser	Glu	Thr	Gln	His	Arg	Gly	
209				20					25					30			
	Ser	Ala		His	Ser	Glu	Ser	Asp	Leu	Pro	Glu	Gln	Glu	Glu	Glu	Ile	
212	_		35	_	_	_		40					45				
	Leu	_	Ser	Asp	Asp	Asp		GIn	GIu	Asp	Pro		Asp	Tyr	Cys	Lys	
215	Gl ₃₂	50	Фъгх	uic	T 011	17.7	55	т10	C1	7 an	Leu	60 Dho	7 an	~1	7 ~~~	The sac	
217		Gry	ıyı	nis	пеп	70	пуъ	116	GIY	ASP	75	Pile	ASII	GIY	Arg	80 1 y t	
		Val	Ile	Ara	Lvs		Glv	Trp	Glv	His	Phe	Ser	Thr	Val	Trn		
221				5	85		017		017	90		-		V 4 1	95	Deu	
	Ser	Trp	Asp	Ile		Gly	Lys	Lys	Phe		Ala	Met	Lys	Val		Lys	
224		-	-	100		-	-	-	105				•	110		•	
226	Ser	Ala	Glu	His	Tyr	Thr	Glu	Thr	Ala	Leu	Asp	Glu	Ile	Arg	Leu	Leu	
227			115					120					125				
	Lys		Val	Arg	Asn	Ser		Pro	Asn	Asp	Pro		Arg	Glu	Met	Val	
230	**- 7	130		-			135	_		_	~7	140	_	~3		'	
		GIn	Leu	Leu	Asp	_	Phe	Lys	IIe	Ser	Gly	Val	Asn	Gly	Thr		
	145	Cvc	Mot	₹7 a T	Dho	150	17a l	LOU	Gl w	ui c	155 His	T 011	T 011	Tara	Tres	160	
236	116	Cys	Mec	vai	165	GIU	vai	пеп	Gry	170	птъ	ьeu	ьеи	пуъ	175	116	
	Ile	Lvs	Ser	Asn		Gln	Glv	Leu	Pro		Pro	Cvs	Val	Lvs		Ile	
239		-		180			2		185			-1 -		190	-1-		
241	Ile	Gln	Gln	Val	Leu	Gln	Gly	Leu	Asp	Tyr	Leu	His	Thr	Lys	Cys	Arg	
242			195					200					205				
244	Ile		His	Thr	Asp	Ile	Lys	Pro	Glu	Asn	Ile	Leu	Leu	Ser	Val	Asn	
245		210	_		_	_	215					220		_			
		Gln	Tyr	Ile	Arg		Leu	Ala	Ala	Glu	Ala	Thr	Glu	Trp	Gln		
248		~1	7.7.	Dwo	Dwa	230	Com	<i>α</i> 1	C	77-	235		mla aa	77-	D	240	
251	Ser	GIY	Ala	PIO	245	PIO	ser	Gry	ser	250	Val	ser	TIIL	Ата	255	GIII	
	Pro	Lvs	Pro	Δla		Lvs	Met	Ser	Lvs		Lys	T.vc	T.vc	Lvs		Lve	
254		_,_		260	тър	_,		001	265	11011	шуо	טעם	LJ D	270	Dea	шуз	
	Lys	Lys	Gln		Arg	Gln	Ala	Glu		Leu	Glu	Lys	Ara		Gln	Glu	
257	-	-	275	-	,			280				4	285				
259	Ile	Glu	Glu	Met	Glu.	Lys	Glu	Ser	Gly	Pro	Gly	Gln	Lys	Arg	Pro	Asn	
260		290					295					300					
		Gln	Glu	Glu	Ser		Ser	Pro	Val	Glu	Arg	Pro	Leu	Lys	Glu	Asn	
263		_				310	_	_			315					320	
265	Pro	Pro	Asn	Lys	Met	Thr	Gln	Glu	Lys	Leu	Glu	Glu	Ser	Ser	Thr	Ile	

RAW SEQUENCE LISTING DATE: 07/07/2006
PATENT APPLICATION: US/10/584,482 TIME: 14:52:51

Input Set : A:\PTO.KD.txt

```
266
                   325
                                      330
268 Gly Gln Asp Gln Thr Leu Met Glu Arg Asp Thr Glu Gly Gly Ala Ala
                                   345
271 Glu Ile Asn Cys Asn Gly Val Ile Glu Val Ile Asn Tyr Thr Gln Asn
                               360
274 Ser Asn Asn Glu Thr Leu Arg His Lys Glu Asp Leu His Asn Ala Asn
                           375
277 Asp Cys Asp Val Gln Asn Leu Asn Gln Glu Ser Ser Phe Leu Ser Ser
                      390
                                          395
280 Gln Asn Gly Asp Ser Ser Thr Ser Gln Glu Thr Asp Ser Cys Thr Pro
                   405
                                      410
283 Ile Thr Ser Glu Val Ser Asp Thr Met Val Cys Gln Ser Ser Ser Thr
              420
                                   425
286 Val Gly Gln Ser Phe Ser Glu Gln His Ile Ser Gln Leu Gln Glu Ser
287 435
                              440
289 Ile Arg Ala Glu Ile Pro Cys Glu Asp Glu Gln Glu Gln Glu His Asn
                           455
                                              460
292 Gly Pro Leu Asp Asn Lys Gly Lys Ser Thr Ala Gly Asn Phe Leu Val
           470
295 Asn Pro Leu Glu Pro Lys Asn Ala Glu Lys Leu Lys Val Lys Ile Ala
                   485
                                       490
298 Asp Leu Gly Asn Ala Cys Trp Val His Lys His Phe Thr Glu Asp Ile
299 500
                                  505
301 Gln Thr Arg Gln Tyr Arg Ser Leu Glu Val Leu Ile Gly Ser Gly Tyr
    515
                              520
304 Asn Thr Pro Ala Asp Ile Trp Ser Thr Ala Cys Met Ala Phe Glu Leu
                           535
                                              540
307 Ala Thr Gly Asp Tyr Leu Phe Glu Pro His Ser Gly Glu Glu Tyr Thr
                       550
                                          555
310 Arg Asp Glu Asp His Ile Ala Leu Ile Ile Glu Leu Leu Gly Lys Val
                                      570
                   565
313 Pro Arg Lys Leu Ile Val Ala Gly Lys Tyr Ser Lys Glu Phe Phe Thr
               580
                                   585
316 Lys Lys Gly Asp Leu Lys His Ile Thr Lys Leu Lys Pro Trp Gly Leu
          595
                               600
319 Phe Glu Val Leu Val Glu Lys Tyr Glu Trp Ser Gln Glu Glu Ala Ala
                           615
                                              620
322 Gly Phe Thr Asp Phe Leu Leu Pro Met Leu Glu Leu Ile Pro Glu Lys
            630
                                          635
325 Arg Ala Thr Ala Ala Glu Cys Leu Arg His Pro Trp Leu Asn Ser
                  645
                                      650
329 <210> SEQ ID NO: 3
330 <211> LENGTH: 2058
331 <212> TYPE: DNA
332 <213> ORGANISM: Homo sapiens
334 <220> FEATURE:
335 <221> NAME/KEY: CDS
336 <222> LOCATION: (1)..(2058)
337 <223> OTHER INFORMATION:
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/07/2006 PATENT APPLICATION: US/10/584,482

TIME: 14:52:52

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\07072006\J584482.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/584,482

DATE: 07/07/2006 TIME: 14:52:52

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\07072006\J584482.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:33 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:31 L:339 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:337